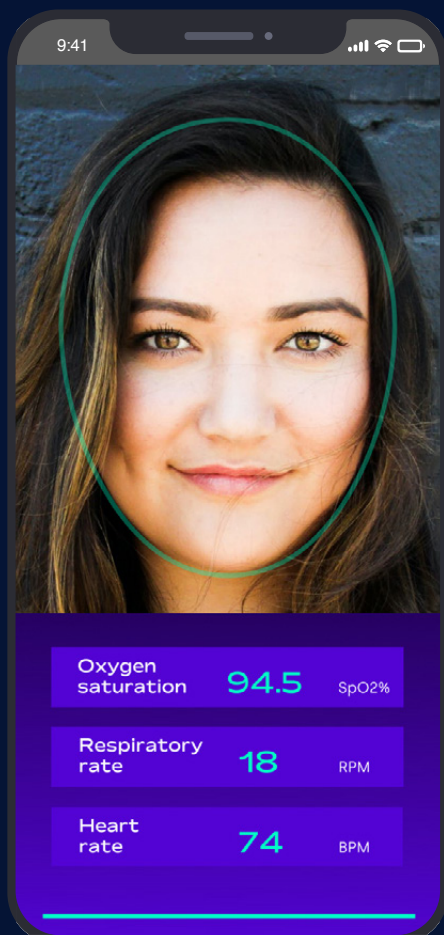


Supporting Businesses' #BackToWork with Binah.ai's Real-time, Video-based Health Monitoring App



#Back to Work

The re-opening of the economy surely cannot wait for a COVID-19 vaccine, which may take another year – so governments and businesses are trying to introduce solutions that will allow people to continue working and keep the economy running. Some sectors, defined as "critical", such as food manufacturing, energy supply, emergency services or law enforcement, simply have to keep functioning, with extensive efforts being made to protect their teams from COVID-19 and maintain business continuity.

As the pandemic continues, businesses are making plans and building strategies on how to restore operations, but are still worrying that a hasty return could cause a second, bigger wave of infection. What measures can these businesses take to mitigate a spread of the virus while maintaining business continuity?

Who Takes Responsibility?

Stopping the spread of COVID-19 has become the responsibility of each and every one of us. People eager to go back to work may choose to do so in spite of not feeling 100% healthy, and therefore, may endanger entire teams and businesses. But what tools do people have at their disposal to determine if they are fit to go to work – or, if their morning cough might be an indicator for COVID-19-related?

Measuring Temperature Is Not Enough

Almost everyone has a thermometer at home, but what happens when there are no preliminary symptoms of deterioration? Research has already shown that many COVID-19 bearers do not develop the symptoms commonly associated with the disease, and for many of these bearers, the disease can cause severe deterioration, exposing respiration-related symptoms, such as fever, shortness of breath, low oxygen saturation levels (SpO2), and increased heart rate.

Businesses must also assume responsibility for employee health. If the virus spreads among the employees, not only does this put business continuity at risk – the business may even be held accountable for the harm caused. So how can these risks be mitigated?

Binah.ai's Solution for #BackToWork

Binah.ai's app puts in the hands of organizations an easy-to-integrate and easy-to-use video-based vital signs monitoring tool, allowing them to better protect employees and customers. Using a smartphone or tablets' front or back camera, Binah.ai's Back to Work app extracts vital signs such as oxygen saturation, respiration rate and heart rate, with medical-grade accuracy, within approximately 30 secs. Organizations can equip employees with a valid and accessible health monitoring tool that they can use anywhere, anytime.



Oxygen
Saturation



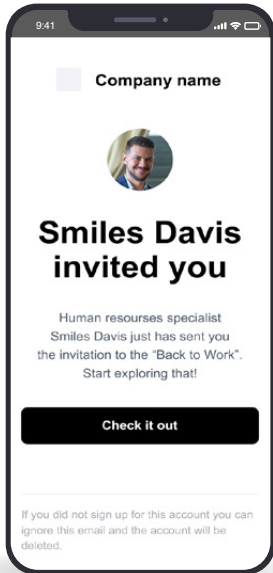
Respiration
Rate



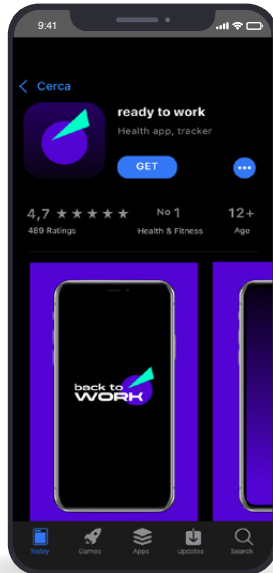
Heart
Rate

Binah.ai' Back to Work App

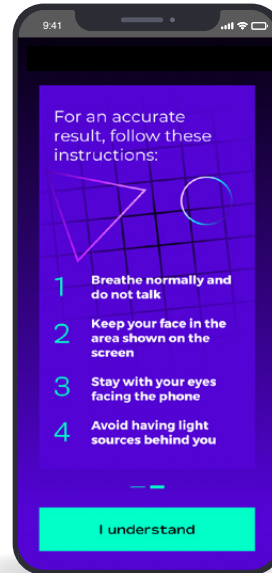
Employee Mobile Experience



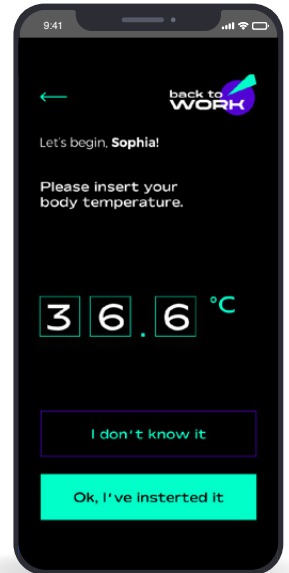
Employee is invited by HR to enroll with the app



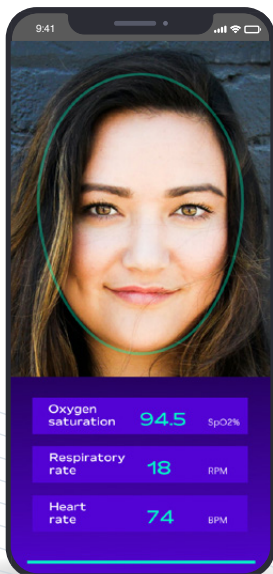
The app is being downloaded from store



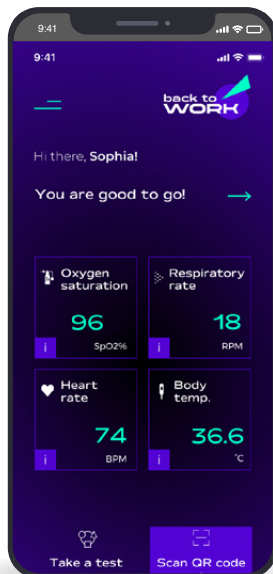
App provides instructions for ideal results



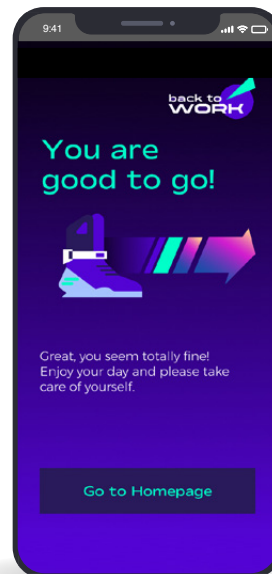
Employee manually enters body temperature data



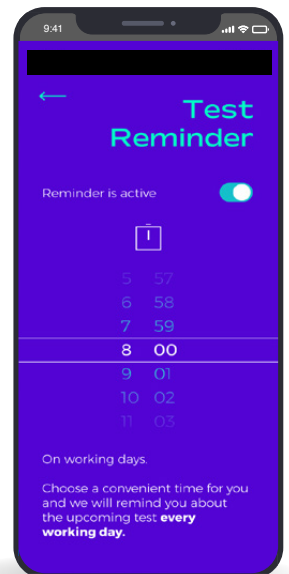
App measures vital signs



App displays vital signs and temperature

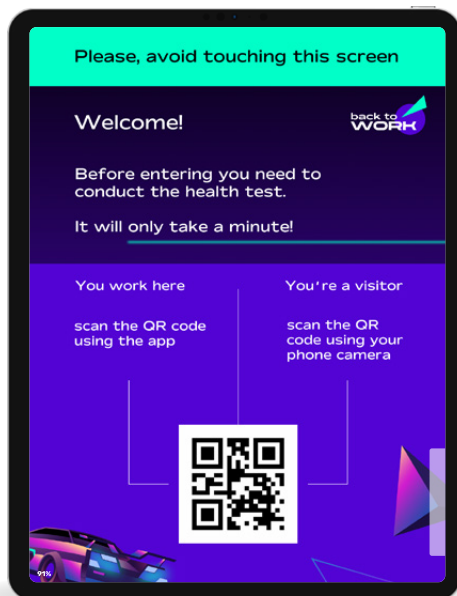


Employee granted entry permit

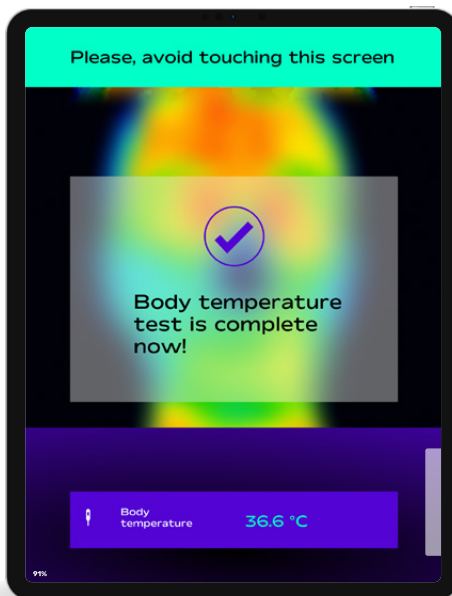


Employee can set a test reminder

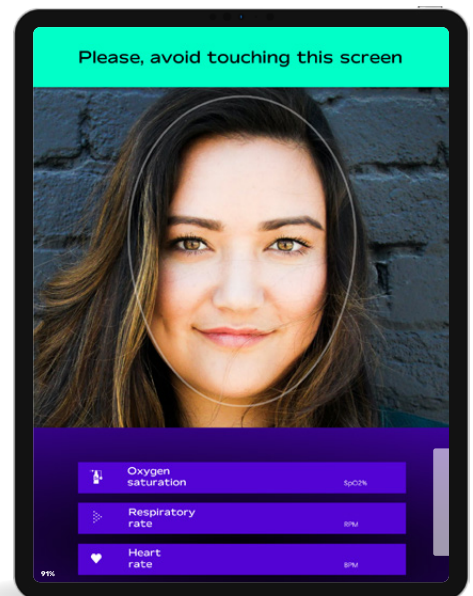
Visitors / Employee Tablet Experience (placed at the organization's entrance)



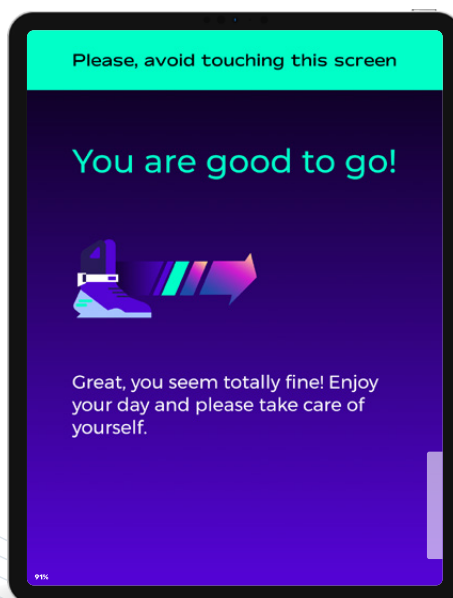
Opening page allowing both employee and visitor to measure vital signs by scanning a QR code



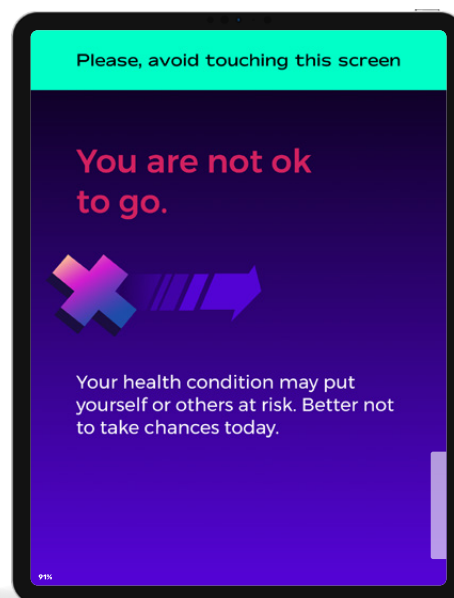
Body temperature measured with thermal camera connected to tablet



Vital signs are extracted using the Back to Work app



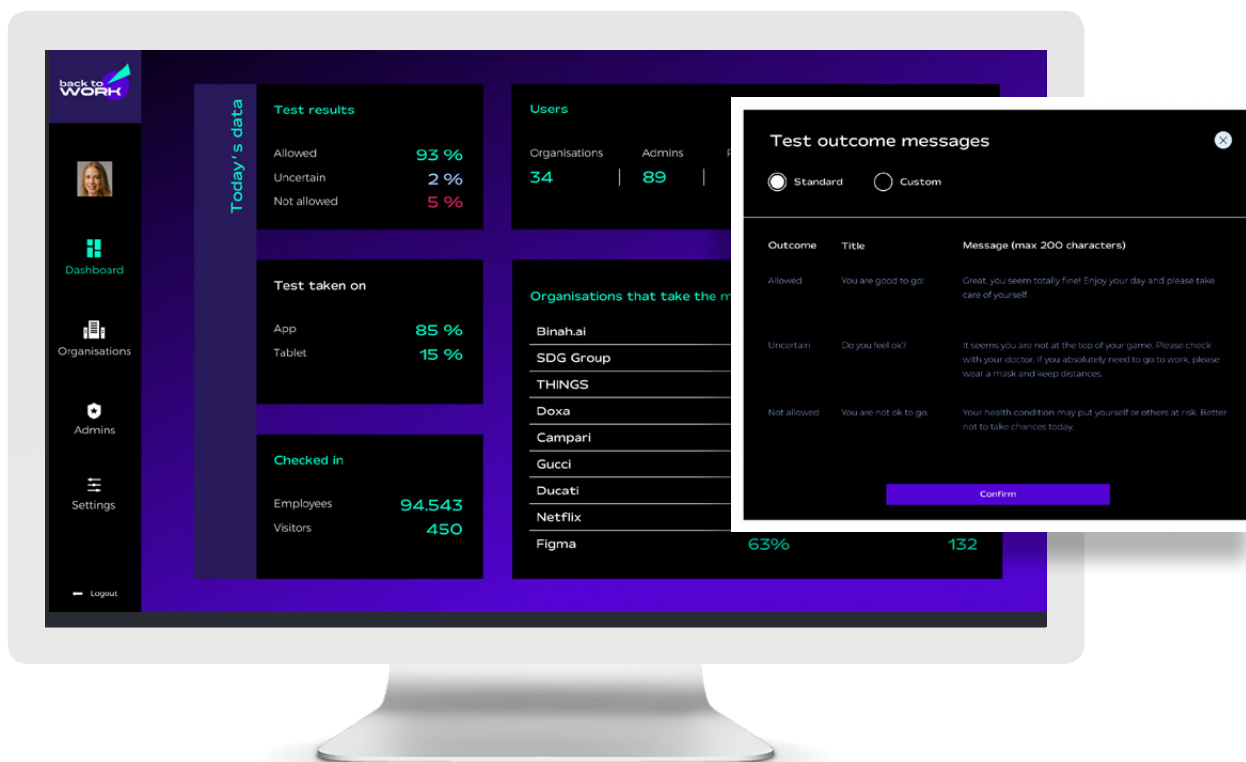
Entry permit granted



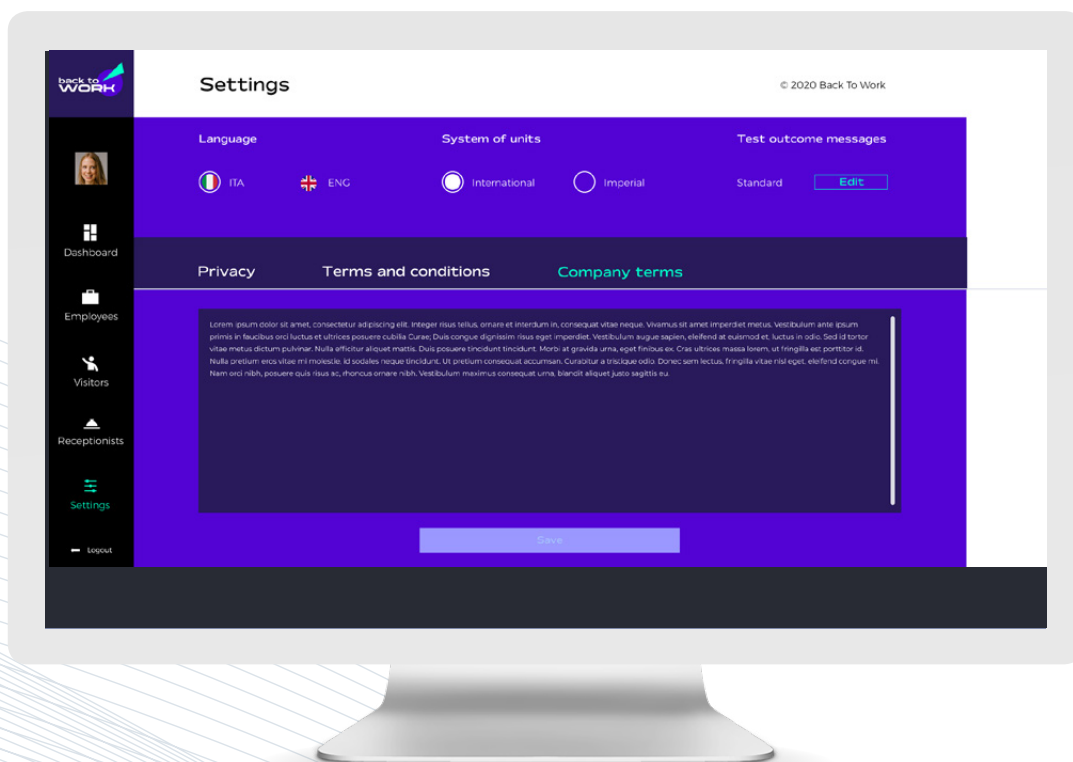
Entry permit denied

Admin Experience

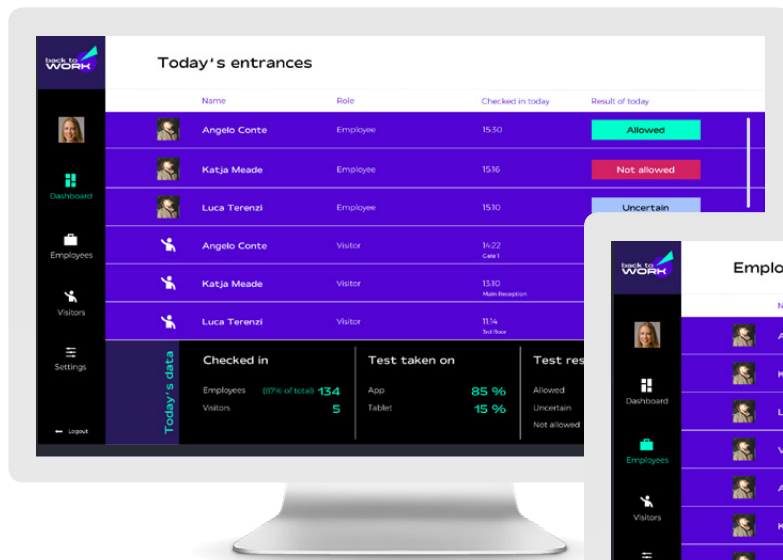
- Admins can view and manage employees, receptionists and visitors
- Dashboard displays scanning results only
- The system calculates results based on rules pre-set by company policies
- Admins may create multiple dashboards for each department or location
- Users may be easily added manually or in bulk, using a CSV file
- System may automatically send warning to employees working in the vicinity of colleagues that have not been allowed entry



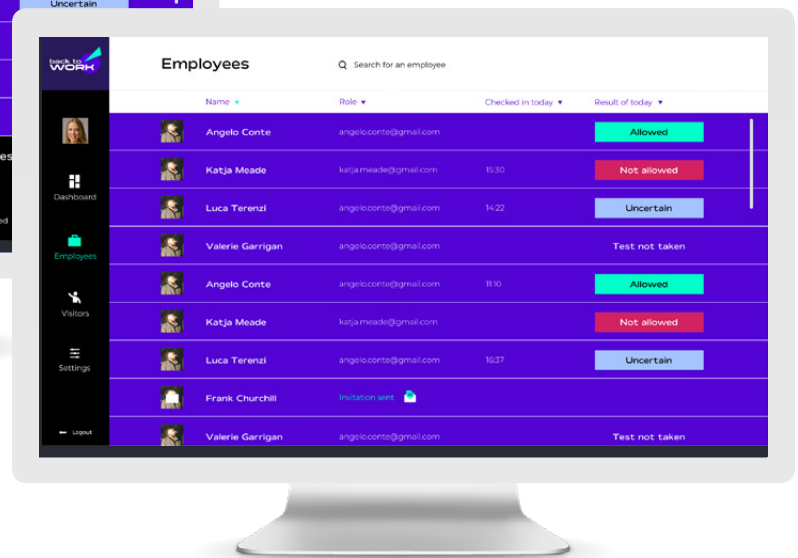
Admin Dashboard



Receptionist Experience



Receptionist may view employees and visitors entrances



Receptionist may view and manage employees

How Binah.ai's App Extracts Vital Signs

Binah.ai's solution applies a unique mix of signal processing and AI technologies, combined with a proprietary mathematical back-end to analyze a video taken from the upper cheek skin region of the face (no video of the eyes is required). It extracts oxygen saturation, respiration rate and heart rate in less than 30 seconds, with medical-grade accuracy. The app applies motion compensation and illumination normalization, and supports any age, gender and skin color. The vital signs extraction is based on a remote photoplethysmography (rPPG) signal using a unique, superior methodology. Binah.ai's app also extracts mental stress within less than 2 minutes, based on Baevski's is based on Baevsky's and US/European Index level measurements (globally approved). Each use case relies on peer-reviewed medical research, and is based on the ability to retrieve continuous, accurate rPPG measurements using video feeds in real time.



Face detection



Face tracking



Motion compensation



Illumination normalization



Skin region of interest selection

Delivery

Binah.ai's Back to Work app is available as an SDK or as an end-to-end white label application platform.



Fully Dedicated System



Pure Service



SaaS Platform



Application

AI-powered Applications that Shape the Future of Healthcare and Wellness

Binah.ai's award-winning and truly groundbreaking technology delivers on our vision and mission to allow for basic and universally accessible health and wellness services for everyone, anywhere. We are helping define and shape the future of Digital Healthcare and Wellness by providing a video-based, extremely easy-to-use and available vital signs monitoring tool, delivered with medical-grade accuracy. The Binah.ai's proven app has countless use cases that span fields such as telemedicine, remote patient monitoring, primary care, personal and corporate wellness, preventive medicine, virtual trials, nursing homes, insurance, in-car wellness and many more. Binah.ai delivers these capabilities, built by our unique team of mathematicians, physicists and biotechnology PhDs, directly to the doorstep of future-focused companies. These modern, innovative companies understand that the latest technologies and connected services are the roadmap to personalized, streamlined, and universally accessible health services, that empower both organizations as well as personal users.

For more information on Binah.ai solution, please visit: www.binah.ai or www.bvue.app or write to us at info@binah.ai

Industries We Empower



Digital Healthcare



Wellness



Insurance



Automotive



Mobile

Recent Market Recognition



CES
Innovation Awards
2020 Honoree



Gartner Cool Vendor
in AI Core
Technologies 2019



GRAND CHAMPION
NTT Data
10th Open Innovation
International Contest 2020



DOMAIN CHAMPION
NTT Data
10th Open Innovation
International Contest 2020

Why Binah.ai?



Accessible

No wearables -
available on any popular
mobile device such as
smartphones and tablets



Accurate

Built and clinically
tested to deliver
medical-grade
accuracy



Easy-to-use

Detects vital signs
just by looking
at any device's
camera



Always Available

App runs locally on
device and does not
require internet
connection



Easy to Integrate

Delivered as an SDK
or end-to-end
white label app
platform



For All

Supports any age,
gender and skin
color

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